

Superfund Records Center

SITE: Wells G & H

BREAK: 2.2.

OTHER: \_\_\_\_\_



SDMS DocID

462022

**REMOVAL PROGRAM  
PRELIMINARY ASSESSMENT/  
SITE INVESTIGATION REPORT  
FOR THE  
WELLS G&H SITE – SOUTHWEST PROPERTIES  
WOBURN, MASSACHUSETTS  
AUGUST 11, 2005**

Prepared By:

U.S. Environmental Protection Agency  
Region I  
Emergency Planning and Response Branch  
1 Congress Street, Suite 1100  
Boston, MA 02114-2023

April 2006

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## I. Preliminary Assessment Form



**EPA REGION I  
REMOVAL PRELIMINARY ASSESSMENT**

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**Site Name and Location**

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**Name:** Wells G&H Site – Southwest Properties (OU-2)      **Location:** Salem Street  
**Town:** Woburn      **County:** Middlesex      **State:** Massachusetts

**Site Status:**      ☒ **NPL**      ☐ **NON-NPL**      ☐ **RCRA**      ☐ **TSCA**  
                         ☐ **ACTIVE**      ☐ **ABANDONED**      ☐ **OTHER**

**Latitude:** 42° 29.428' North      **Longitude:** 71° 7.925' West

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**Referral**

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☐ **Citizen**      ☐ **City/Town**      ☐ **State**      ☐ **Preremedial**  
☐ **RCRA**      ☒ **Other: remedial**

**Name of referring party:** Joe Lemay      **Telephone:** (617) 918-1323  
**Address:** USEPA Region 1, 1 Congress Street, Suite 1100, Boston, MA 02114-2023

**Contacts Identified**

1) Joe Lemay, RPM      **Telephone:** (617) 918-1323  
2) Jennifer McWeeney, MassDEP      **Telephone:** (617) 654-6560

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**Source of Information**

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☐ **Verbal:**  
☒ **Report:** *Baseline Human Health and Ecological Risk Assessment*, prepared by Metcalf & Eddy, Inc., March 2004.

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**Potential Responsible Parties**

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*Murphy Property (250-252 Salem Street):*

**Owner:** Old Oil Realty Trust, c/o Joan Murphy, Trustee  
**Telephone:** (781) 272-8188  
**Address:** 41 Harriet Avenue, Burlington, MA

## REMOVAL PRELIMINARY ASSESSMENT

**Operator:** Murphy's Waste Oil Service, Inc., c/o Clean Harbors, Inc., attn: William Connors

**Telephone:** (781) 849-1800 x1357

**Address:** 1501 Washington Street, PO Box 859048, Braintree, MA 02185-9048

*Whitney Property (256 Salem Street):*

**Owner:** KEK Realty Trust, c/o Ruth Whitney, Trustee

**Telephone:** (508) 596-5890

**Address:** 4 Campground Road, Boxford, MA 01921

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### Site Access

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*Murphy Property (250-252 Salem Street):*

**Authorizing Person:** Joan Murphy, Trustee, Old Oil Realty Trust

**Date:** July 1, 2005

☒ **Obtained**

☐ **Verbal**

**Telephone:** (781) 272-8188

☐ **Not Obtained**

☒ **Written**

**Authorizing Person:** Carl Paschetag, Vice President and Treasurer, Murphy's Waste Oil Service, Inc.

**Date:** May 16, 2005

☒ **Obtained**

☐ **Verbal**

**Telephone:** (781) 849-1800

☐ **Not Obtained**

☒ **Written**

*Whitney Property (256 Salem Street):*

**Authorizing Person:** John Whitney, President, KEK Realty Trust

**Date:** May 20, 2005

☒ **Obtained**

☐ **Verbal**

**Telephone:** (508) 596-5890

☐ **Not Obtained**

☒ **Written**

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### Physical Site Characterization

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**Background Information:** The Southwest Properties Site is part (Operable Unit 2) of the Wells G&H Superfund Site. The Southwest Properties are also listed as three separate Massachusetts Department of Environmental Protection (MassDEP) cleanup sites under the 21E program, including: (1) Aberjona Auto Parts, (2) Whitney Barrel, and (3) Murphy's Waste Oil. Land use at and in the vicinity of the Site is highly developed with light commercial and industrial parks bordering the wetlands area associated with the Aberjona River floodplain. Currently, the Aberjona Property is comprised of an idle auto salvage yard and a single family residence. The Whitney Property is utilized by a variety of small businesses such as landscaping and auto glass repair. The Murphy Property is leased by Murphy Waste Oil Service, Inc. and is an active waste oil treatment and storage facility. The wetland area, known as the Murphy Wetland, which lies between the Murphy and Whitney Properties (and the Wildwood Property to the north), is the

## REMOVAL PRELIMINARY ASSESSMENT

primary focus of this investigation.

### Description of Substances Possibly Present, Known or Alleged:

Pre-existing sampling data indicate the presence of heavy metals (chromium and lead) and polychlorinated biphenyls (PCBs) in sediments and surface soils in the Murphy Wetland area.

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### Existing Analytical Data

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#### ( ) Real-Time Monitoring Data:

**(X) Sampling Data:** Refer to *Baseline Human Health and Ecological Risk Assessment, Volume I*, prepared by Metcalf & Eddy, Inc., March 2004.

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### Potential Threat

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Description of potential hazards to environment and/or population-identify any of the criteria for a Removal Action (from NCP) that may be met by the site under 40 CFR 300.415 [b] [2].

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.
- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.
- iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.
- vii. The availability of other appropriate federal or state response mechanisms to respond to the release.

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### Prior Response Activities

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**(X) PRP**                      **(X) STATE**                      **(X) FEDERAL**                      **( ) OTHER**

**Brief Description:** The Site is being addressed by the EPA remedial program as a National Priorities List site and by MassDEP as part of the 21E program.

## REMOVAL PRELIMINARY ASSESSMENT

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### Priority for Site Investigation

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☒ High

☐ Medium

☐ Low

☐ None

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### Report Generation

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**Originator:** Frank Gardner, On-Scene Coordinator

**Affiliation:** USEPA Region 1, EPRB

**Date:** April 10, 2006

**Telephone:** 617-918-1278

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## II. Site Investigation Form



**EPA REGION I  
REMOVAL SITE INVESTIGATION**

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**Inspection Information**

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**Site Name:** Wells G&H Site – Southwest Properties (OU-2)      **Address:** 250-256 Salem Street  
**Town:** Woburn      **County:** Middlesex      **State:** Massachusetts  
**Date of Inspection:** August 11, 2005  
**Time of Inspection:** 1100-1415 hours and 1530-1630 hours  
**Weather Conditions:** 85°F, calm, clear  
**Site Status at Time of Inspection:** (X) ACTIVE      ( ) INACTIVE

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**Agencies/Personnel Performing Inspection**

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(X) **EPA:** Frank Gardner, On-Scene Coordinator and Joe Lemay, Remedial Project Manager  
(X) **EPA Contractor:** David Sullivan, TRC  
(X) **State:** Anna Mayer, Massachusetts Department of Environmental Protection

**Current Owner Based on Field Interview:**

*Murphy Property (250-252 Salem Street):*

**Owner:** Old Oil Realty Trust, c/o Joan Murphy, Trustee  
**Telephone:** (781) 272-8188  
**Address:** 41 Harriet Avenue, Burlington, MA

**Operator:** Murphy's Waste Oil Service, Inc., c/o Clean Harbors, Inc., attn: William Connors  
**Telephone:** (781) 849-1800 x1357  
**Address:** 1501 Washington Street, PO Box 859048, Braintree, MA 02185-9048

*Whitney Property (256 Salem Street):*

**Owner:** KEK Realty Trust, c/o Ruth Whitney, Trustee  
**Telephone:** (508) 596-5890  
**Address:** 4 Campground Road, Boxford, MA 01921

## REMOVAL SITE INVESTIGATION

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### Physical Site Characteristics

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Parameter	Quantities/Extent
<b>(X) Cylinders:</b>	Several cylinders of oxygen and other industrial compressed gases were observed at the Whitney Property.
<b>(X) Drums:</b>	Numerous 55-gallon (empty) and smaller containers were observed throughout the Whitney Property, both outdoors and indoors.
<b>( ) Lagoons:</b>	
<b>( ) Tanks:</b>	
<b>(X) Piles:</b>	A windrow of soil was observed at the rear of the Murphy Property.
<b>( ) Stained Soil:</b>	
<b>( ) Sheens:</b>	
<b>( ) Stressed Vegetation:</b>	
<b>( ) Landfill:</b>	
<b>(X) Wells:</b>	<b>( ) Drinking:</b>
	<b>(X) Monitoring:</b> Monitoring wells were observed on the Murphy Property.

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### Field Quality Control Procedures

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<b>(X) SOP Followed</b>	<b>( ) Deviation From SOP</b>
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### Description of Sampling Conducted

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Nine surface (0-3") soil samples were collected and transported to EPA's New England Regional Laboratory (NERL) for analysis.

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### Analyses

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Analytical Parameter	Media	Laboratory
<b>( ) VOC</b>	<b>( ) AIR</b>	<b>(X) NERL</b>
<b>(X) PCB</b>	<b>( ) WATER</b>	<b>( ) CLP</b>
<b>(X) PESTICIDE</b>	<b>(X) SOIL</b>	<b>( ) PRIVATE</b>
<b>(X) METALS</b>	<b>( ) SOURCE</b>	<b>( ) SAS</b>
<b>( ) CYANIDE</b>	<b>( ) SEDIMENT</b>	<b>( ) SOW</b>
<b>( ) SVOC</b>		<b>( ) Field</b>
<b>( ) ASBESTOS</b>		



**Wells G&H Site - Southwest Properties**  
Woburn, MA

*Surface Soil Sample Locations and Results*

Sample ID	Date	Latitude	Longitude	Total Cr (mg/kg)	Total Pb (mg/kg)	Total PCB (mg/kg)
SS-050811-01	8/11/2005	42.49068	71.13250	1300	3600	38
SS-050811-02	8/11/2005	42.49090	71.13260	11000	1400	5.8
SS-050811-03	8/11/2005	42.49120	71.13317	2700	320	0.24
SS-050811-04	8/11/2005	42.49117	71.13293	950	150	0.11
SS-050811-05	8/11/2005	42.49102	71.13313	1700	240	0.12
SS-050811-06	8/11/2005	42.49095	71.13287	16	130	0.32
SS-050811-07	8/11/2005	42.49047	71.13208	64	310	1.22
SS-050811-08	8/11/2005	42.49057	71.13198	73	510	0.3
SS-050811-09	8/11/2005	42.49108	71.13222	1100	1000	20.5

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**Receptors**

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**Receptor Types**

**Comments**

**(X) Drinking Water**      **( ) Private:**      **(X) Municipal:** The City of Woburn's municipal water supply Wells G&H are located approximately ¼ mile to the north.

**( ) Groundwater:**

**(X) Site Accessibility:** Access to the Site is restricted. Both the Murphy and Whitney Properties are active commercial properties with gated access. The Murphy Wetland area is not fenced. However, dense vegetation and extensive poison ivy make access to this area difficult.

**(X) Population in Proximity:** 8,719 people live within 1 mile.

**(X) Sensitive Ecosystem:** Wetland habitats, including the "Murphy Wetland" are present at the Site. The *Baseline Human Health and Ecological Risk Assessment* lists sediment organisms, muskrat, and shrew as sensitive receptors in this wetland ecosystem.

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**Site Determination**

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Depending on further information, criteria that may be met by the site include 40 CFR 300.415 [b] [2], parts:

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.
- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.
- iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.

- vii. The availability of other appropriate federal or state response mechanisms to respond to the release.

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**Report Generation**

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**Originator:** Frank Gardner, On-Scene Coordinator  
**Affiliation:** USEPA Region 1, EPRB

**Date:** April 12, 2006  
**Telephone:** 617-918-1278

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### III. Appendices

## Appendix A

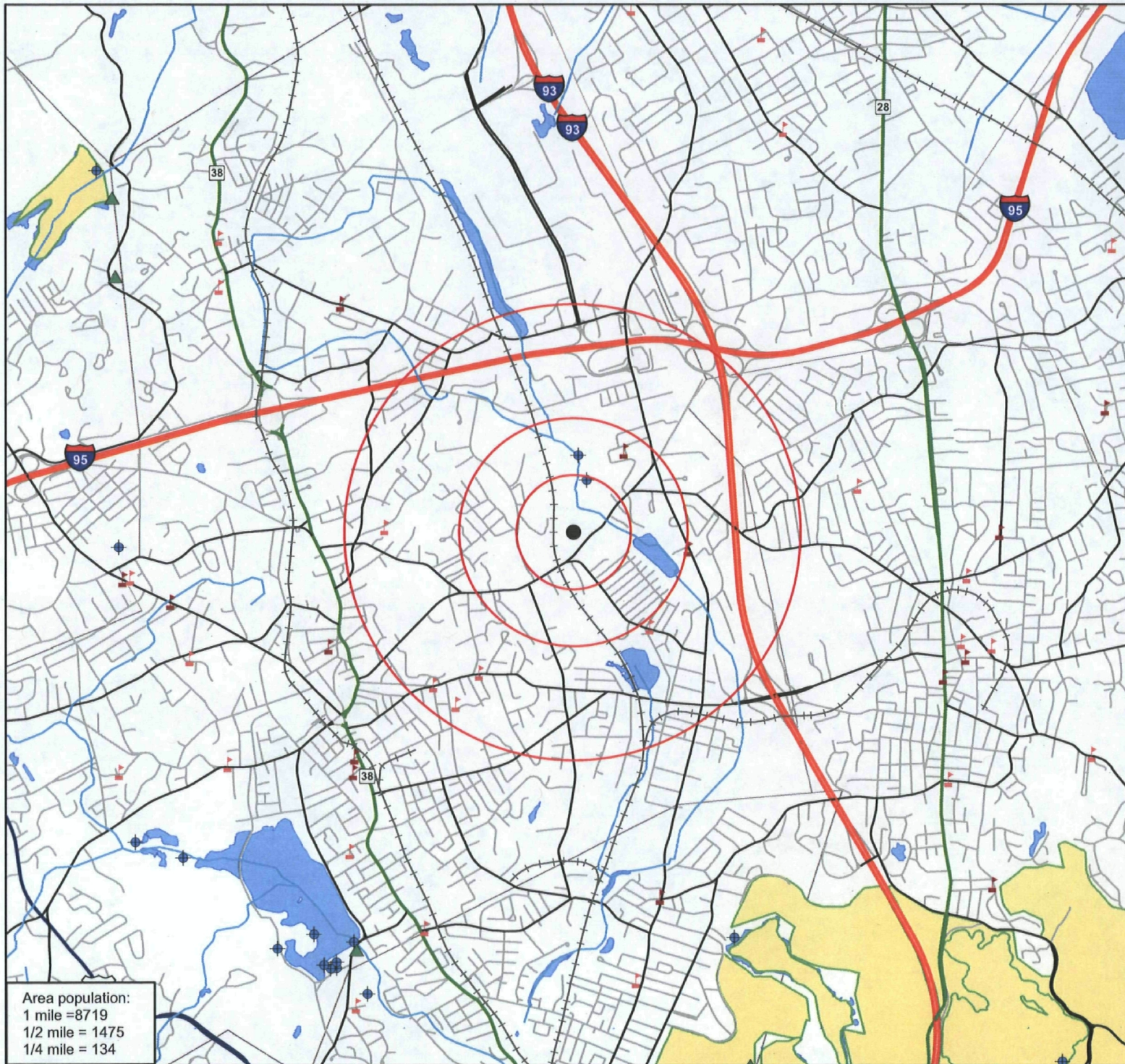
### Figures



# Site Map

## Wells G&H Site

### Southwest Properties



#### Legend

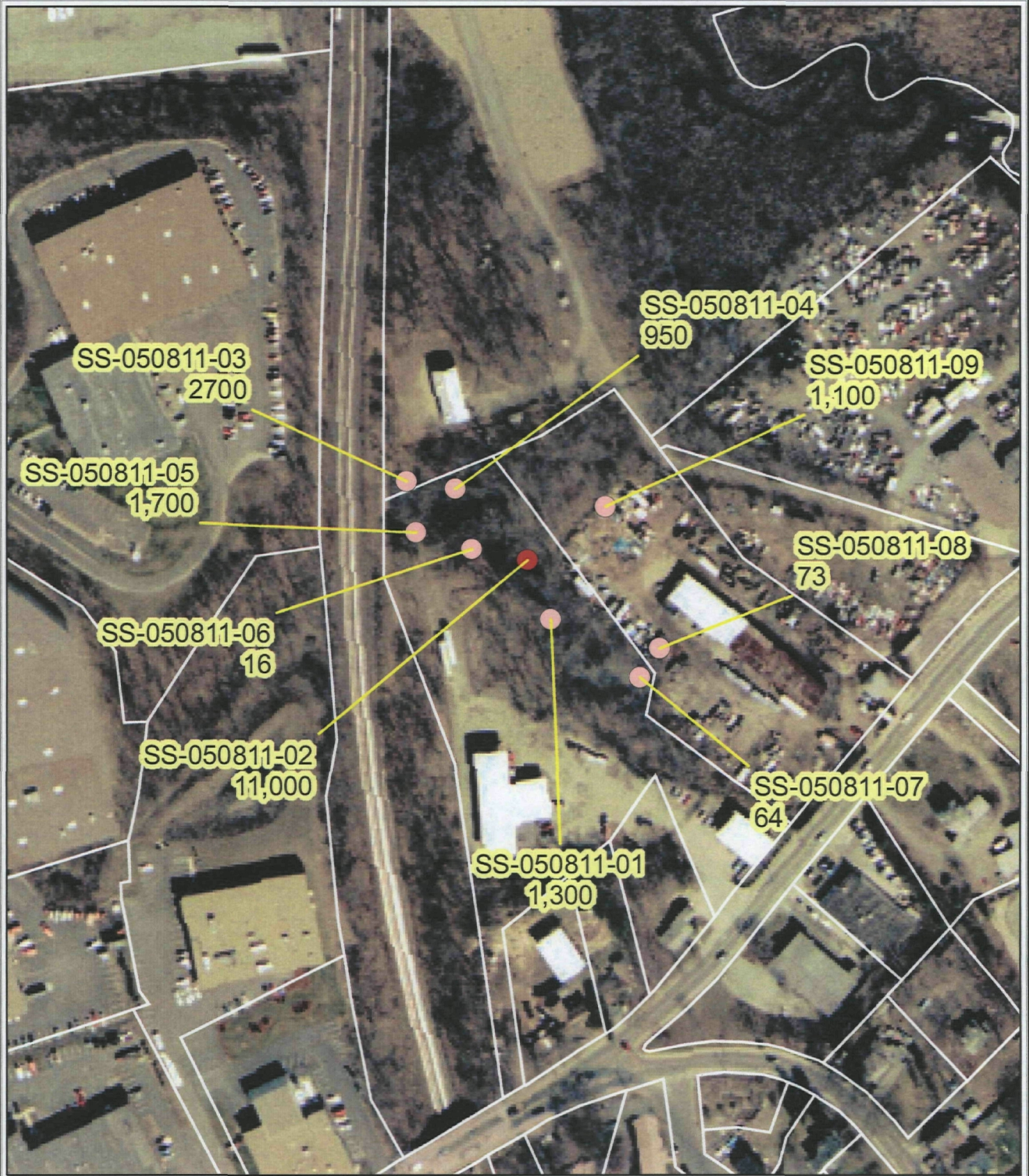
- Road
- Interstate
- US Highway
- State Highway
- Local Thoroughfare
- Toll Road
- Rivers
- Public Water Supply
- Railroad
- Pipelines
- Private School
- Public School
- Fuel/Oil Storage Facility**
- FRP**
- FRP
- No FRP
- NPDES Facilities
- ESA Points
- Dams
- Airports
- County
- State
- Sole Source Aquifer
- Town Boundary
- Water Bodies
- Tribal Land
- ESA
- USCG Jurisdiction

0 0.4 0.8 Miles



This map was created by the  
Emergency Response's Sites GIS Application.





**Total Chromium Sampling Results (mg/kg)**

- 16 - 2,800
- 2,800 - 5,500
- 5,500 - 8,300
- 8,300 - 11,000

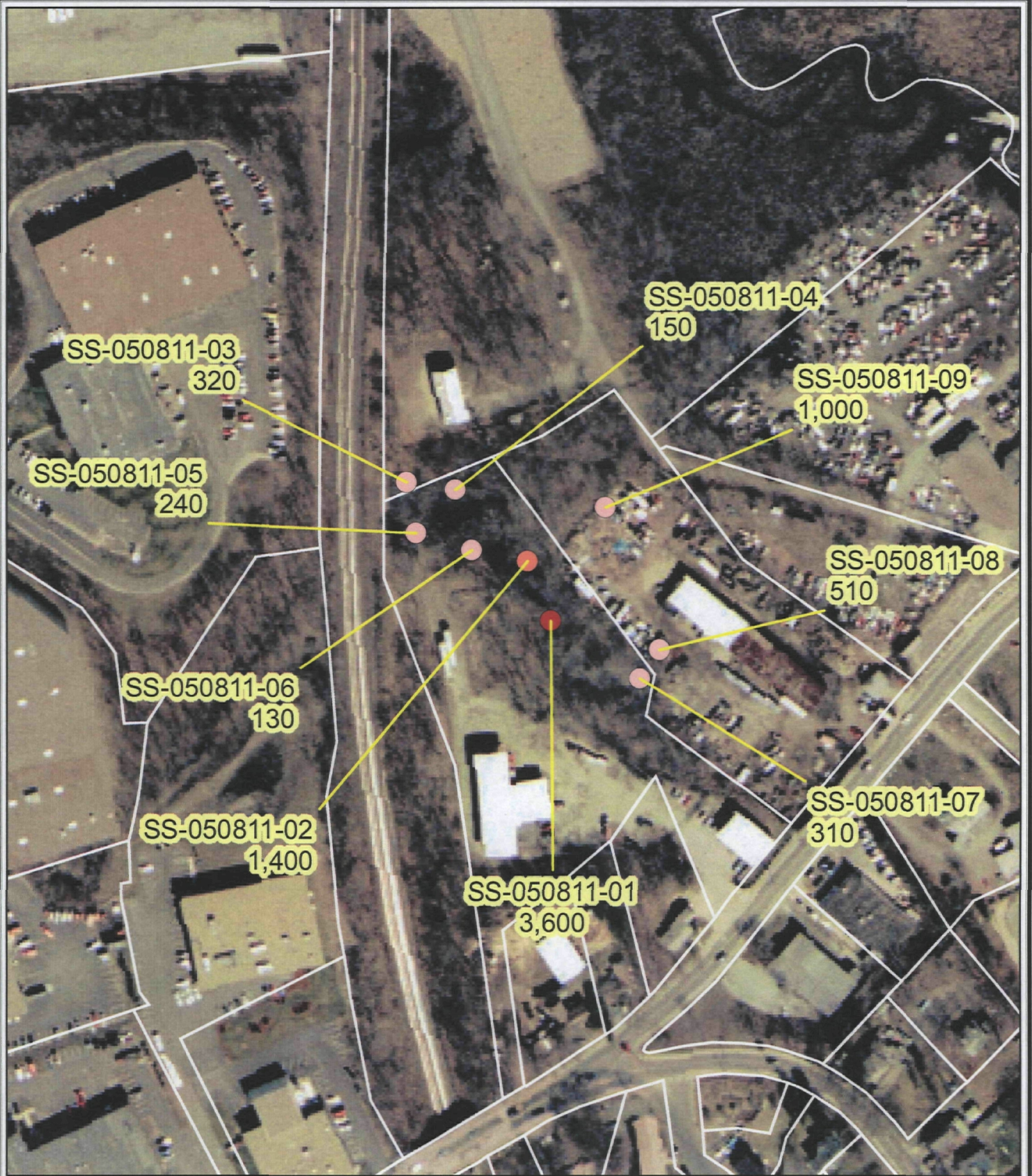


**Wells G & H Site - Southwest Properties  
Surface Soil Sampling - Total Chromium**

This map created by the EPA New England GIS Center on 27-March-2006  
L:\projects\sites\wells\_g\_h\Wells G & H surface soil sampling.mxd







0 50 100 200  
Feet

**Total Lead Sampling Results (mg/kg)**

- 130 - 1,000
- 1,000 - 1,900
- 1,900 - 2,700
- 2,700 - 3,600

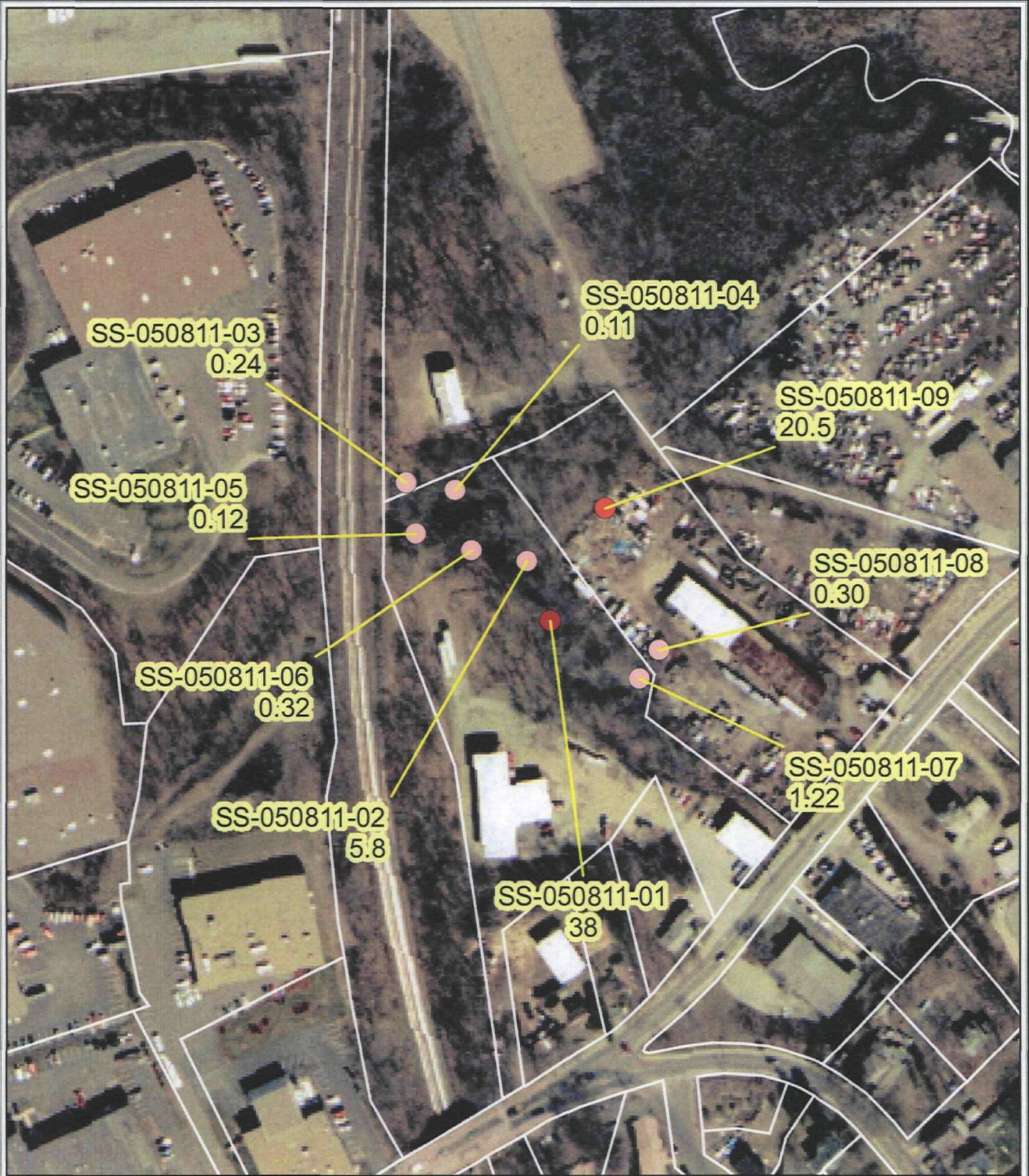


**Wells G & H Site - Southwest Properties  
Surface Soil Sampling - Total Lead**

This map created by the EPA New England GIS Center on 27-March-2006  
L:\projects\sites\wells\_g\_h\Wells G & H surface soil sampling.mxd







0 50 100 200  
Feet

Total PCBs Sampling Results (mg/kg)

- 0.11 - 10
- 10 - 19
- 19 - 29
- 29 - 38



### Wells G & H Site - Southwest Properties Surface Soil Sampling - Total PCBs

This map created by the EPA New England GIS Center on 29-March-2006  
L:\projects\sites\wells\_g\_h\Wells G & H surface soil sampling.mxd





**Appendix B**  
**Photodocumentation Log**

**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Murphy Property, structure at front of facility, facing Salem Street. Photograph taken facing north.  
**DATE:** August 11, 2005  
**PHOTOGRAPHER:** Frank Gardner  
**TIME:** 1413 hours  
**CAMERA:** Canon PowerShot A40



**SCENE:** Murphy property, gated entrance to rear of facility. Photograph taken facing northwest.  
**DATE:** August 11, 2005  
**PHOTOGRAPHER:** Frank Gardner  
**TIME:** 1413 hours  
**CAMERA:** Canon PowerShot A40



**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Murphy Property. Process building at rear of facility. Photograph taken facing west.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1411 hours

**CAMERA:** Canon PowerShot A40



**SCENE:** Sample station SS-050811-01.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1306 hours

**CAMERA:** Canon PowerShot A40



**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Sample station SS-050811-02.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1315 hours

**CAMERA:** Canon PowerShot A40



**SCENE:** Sample station SS-050811-03.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1327 hours

**CAMERA:** Canon PowerShot A40



**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Sample station SS-050811-04.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1334 hours

**CAMERA:** Canon PowerShot A40



**SCENE:** Sample station SS-050811-05.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1347 hours

**CAMERA:** Canon PowerShot A40



**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Sample station SS-050811-06.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1357 hours

**CAMERA:** Canon PowerShot A40



**SCENE:** Whitney Property, from front gate at Salem Street. Photograph taken facing northwest.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Joe Lemay

**TIME:** 1609 hours

**CAMERA:** Canon PowerShot A40



**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Industrial equipment and vehicles on Whitney Property. Photograph taken facing north.

**DATE:** August 11, 2005

**TIME:** 1600 hours

**PHOTOGRAPHER:** Joe Lemay

**CAMERA:** Canon PowerShot A40



**SCENE:** Industrial equipment and vehicles on Whitney Property. Photograph taken facing west.

**DATE:** August 11, 2005

**TIME:** 1552 hours

**PHOTOGRAPHER:** Joe Lemay

**CAMERA:** Canon PowerShot A40



**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Compressed gas cylinders on Whitney Property.  
**DATE:** August 11, 2005  
**PHOTOGRAPHER:** Joe Lemay

**TIME:** 1602 hours  
**CAMERA:** Canon PowerShot A40



**SCENE:** Compressed gas cylinders on Whitney Property.  
**DATE:** August 11, 2005  
**PHOTOGRAPHER:** Joe Lemay

**TIME:** 1553 hours  
**CAMERA:** Canon PowerShot A40



## PHOTOGRAPHY LOG SHEET

Wells G&H Site – Southwest Properties • Woburn, Massachusetts



**SCENE:** Small containers inside building on Whitney Property.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Joe Lemay

**TIME:** 1551 hours

**CAMERA:** Canon PowerShot A40



**SCENE:** Containers and equipment stored outside building on Whitney Property. Photograph taken facing north.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Joe Lemay

**TIME:** 1558 hours

**CAMERA:** Canon PowerShot A40



**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Drums stored under trailer on Whitney Property.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Joe Lemay

**TIME:** 1557 hours

**CAMERA:** Canon PowerShot A40



**SCENE:** Sample station SS-050811-07.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1534 hours

**CAMERA:** Canon PowerShot A40



**PHOTOGRAPHY LOG SHEET**  
**Wells G&H Site – Southwest Properties • Woburn, Massachusetts**



**SCENE:** Sample station SS-050811-08.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1540 hours

**CAMERA:** Canon PowerShot A40



**SCENE:** Sample station SS-050811-09.

**DATE:** August 11, 2005

**PHOTOGRAPHER:** Frank Gardner

**TIME:** 1548 hours

**CAMERA:** Canon PowerShot A40

## Appendix C

### Chain-of-Custody Record

## REGION 1

## CHAIN OF CUSTODY RECORD

[illegible]

1-14810

Appendix D

Analytical Data



United States Environmental Protection Agency  
Office of Environmental Measurement & Evaluation  
11 Technology Drive  
North Chelmsford, MA 01863-2431

Laboratory Report

October 03, 2005

Mr Frank Gardner - HBR  
USEPA New England, Region 1  
One Congress Street  
Boston, MA 02114 - 2023

Project Number: 05080028  
Project: Wells G+H S. West Properties - Woburn, MA  
Analysis: Metals in Soil Medium Level by ICP  
EPA Chemist: Mike Dowling

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Samples were prepared following the EPA Region I SOP, INGMETALSPREP5.SOP.

Samples were analyzed following the EPA Region I SOP, ELASOP-INGICP6.

Samples were analyzed by inductively coupled plasma - atomic emission spectrometry using pneumatic nebulization. Preparation and analysis SOP's are based on "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, Revision 2, Final Update III, Methods 3050B and 6010B," respectively.

Date Samples Received by the Laboratory: 8/11/05

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions, please call me at 617-918-8335.

Sincerely,

Nora J. Conlon, Ph. D.  
Chemistry Laboratory Services Coordinator



**Oualifiers:**

<b>RL</b>	Reporting limit
<b>ND</b>	<i>Not Detected above reporting limit</i>
<b>NA</b>	Not Applicable
<b>NC</b>	Not calculated since analyte concentration is ND
<b>J1</b>	Estimated value due to MS recovery outside acceptance criteria
<b>J2</b>	Estimated value due to LFB result outside acceptance criteria
<b>J3</b>	Estimated value due to RPD result outside acceptance criteria
<b>J4</b>	Estimated value due to LCS result outside acceptance criteria
<b>J5</b>	Estimated value due to interference check recovery outside acceptance criteria
<b>B</b>	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
<b>R</b>	No recovery was calculated since the analyte concentration is greater than four times the spike level.

**Comments:**

**The samples were prepared and analyzed by ESAT contractors.**

**Sample results are in mg/Kg dry wt. units.**



US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Metals in Soil Medium Level by ICP

Client Sample ID: SS-050811-01  
Date of Collection: 8/11/2005  
Date of Digestion: 8/17/05  
Date of Analysis: 8/23/05  
Volume Digested: N/A

Lab Sample ID: AA52250  
Matrix: Soil/Sediment  
Final Volume: 50 mL  
Digestate Dilution: 1  
pH: NA

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	9900	21	
7440-36-0	Antimony	ND	10	
7440-38-2	Arsenic	ND	21	
7440-39-3	Barium	1200	3.1	
7440-41-7	Beryllium	ND	1.0	
7440-43-9	Cadmium	4.3	3.1	
7440-70-2	Calcium	14000	21	
7440-47-3	Chromium	1300	3.1	
7440-48-4	Cobalt	15	3.1	
7440-50-8	Copper	78	3.1	
7439-89-6	Iron	17000	10	
7439-92-1	Lead	3600	10	
7439-95-4	Magnesium	3900	21	
7439-96-5	Manganese	310	2.1	
7440-02-0	Nickel	41	6.3	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	3.1	
7440-28-0	Thallium	ND	42	
7440-62-2	Vanadium	69	3.1	
7440-66-6	Zinc	1600	3.1	

**Comments:** Thallium RL raised due to matrix interference

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

**Wells G+H S.West Properties - Woburn, MA**

**Metals in Soil Medium Level by ICP**

Client Sample ID:	SS-050811-02	Lab Sample ID:	AA52251
Date of Collection:	8/11/2005	Matrix:	Soil/Sediment
Date of Digestion:	8/17/05	Final Volume:	50 mL
Date of Analysis:	8/23/05	Digestate Dilution:	1, 2
Volume Digested:	N/A	pH:	NA

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	7400	20	
7440-36-0	Antimony	ND	20	
7440-38-2	Arsenic	ND	40	
7440-39-3	Barium	430	3.0	
7440-41-7	Beryllium	ND	1.0	
7440-43-9	Cadmium	3.1	3.0	
7440-70-2	Calcium	12000	40	
7440-47-3	Chromium	11000	6.1	
7440-48-4	Cobalt	6.5	6.1	
7440-50-8	Copper	74	3.0	
7439-89-6	Iron	18000	10	
7439-92-1	Lead	1400	20	
7439-95-4	Magnesium	1900	40	
7439-96-5	Manganese	180	4.0	
7440-02-0	Nickel	24	6.1	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	3.0	
7440-28-0	Thallium	ND	40	
7440-62-2	Vanadium	46	6.1	
7440-66-6	Zinc	750	3.0	

**Comments:** Results for antimony, arsenic, calcium, chromium, cobalt, lead, magnesium, manganese, thallium and vanadium reported from 1:2 dilution.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Metals in Soil Medium Level by ICP

Client Sample ID: SS-050811-03

Date of Collection: 8/11/2005

Date of Digestion: 8/17/05

Date of Analysis: 8/23/05

Volume Digested: N/A

Lab Sample ID: AA52252

Matrix: Soil/Sediment

Final Volume: 50 mL

Digestate Dilution: 1

pH: NA

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	12000	20	
7440-36-0	Antimony	ND	10	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	170	3.0	
7440-41-7	Beryllium	ND	1.0	
7440-43-9	Cadmium	ND	3.0	
7440-70-2	Calcium	8700	20	
7440-47-3	Chromium	2700	3.0	
7440-48-4	Cobalt	6.5	3.0	
7440-50-8	Copper	58	3.0	
7439-89-6	Iron	11000	10	
7439-92-1	Lead	320	10	
7439-95-4	Magnesium	3000	20	
7439-96-5	Manganese	160	2.0	
7440-02-0	Nickel	23	6.1	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	3.0	
7440-28-0	Thallium	ND	39	
7440-62-2	Vanadium	66	3.0	
7440-66-6	Zinc	370	3.0	

Comments: Thallium RL raised due to matrix interference.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

**Wells G+H S.West Properties - Woburn, MA**

**Metals in Soil Medium Level by ICP**

Client Sample ID: SS-050811-04  
Date of Collection: 8/11/2005  
Date of Digestion: 8/17/05  
Date of Analysis: 8/23/05  
Volume Digested: N/A

Lab Sample ID: AA52253  
Matrix: Soil/Sediment  
Final Volume: 50 mL  
Digestate Dilution: 1  
pH: NA

<b>CAS Number</b>	<b>Parameter</b>	<b>Concentration mg/Kg</b>	<b>RL mg/Kg</b>	<b>Qualifier</b>
7429-90-5	Aluminum	16000	20	
7440-36-0	Antimony	ND	9.9	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	130	3.0	
7440-41-7	Beryllium	ND	0.99	
7440-43-9	Cadmium	ND	3.0	
7440-70-2	Calcium	11000	20	
7440-47-3	Chromium	950	3.0	
7440-48-4	Cobalt	14	3.0	
7440-50-8	Copper	62	3.0	
7439-89-6	Iron	20000	9.9	
7439-92-1	Lead	150	9.9	
7439-95-4	Magnesium	7400	20	
7439-96-5	Manganese	310	2.0	
7440-02-0	Nickel	28	5.9	
7782-49-2	Selenium	ND	9.9	
7440-22-4	Silver	ND	3.0	
7440-28-0	Thallium	ND	53	
7440-62-2	Vanadium	54	3.0	
7440-66-6	Zinc	360	3.0	

**Comments:** Thallium RL raised due to matrix interference.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Metals in Soil Medium Level by ICP

Client Sample ID: SS-050811-05  
Date of Collection: 8/11/2005  
Date of Digestion: 8/17/05  
Date of Analysis: 8/23/05  
Volume Digested: N/A

Lab Sample ID: AA52254  
Matrix: Soil/Sediment  
Final Volume: 50 mL  
Digestate Dilution: 1  
pH: NA

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	21000	19	
7440-36-0	Antimony	ND	9.7	
7440-38-2	Arsenic	ND	19	
7440-39-3	Barium	140	2.9	
7440-41-7	Beryllium	1.0	0.97	
7440-43-9	Cadmium	ND	2.9	
7440-70-2	Calcium	6500	19	
7440-47-3	Chromium	1700	2.9	
7440-48-4	Cobalt	15	2.9	
7440-50-8	Copper	93	2.9	
7439-89-6	Iron	28000	9.7	
7439-92-1	Lead	240	9.7	
7439-95-4	Magnesium	8100	19	
7439-96-5	Manganese	400	1.9	
7440-02-0	Nickel	39	5.8	
7782-49-2	Selenium	ND	9.7	
7440-22-4	Silver	ND	2.9	
7440-28-0	Thallium	ND	56	
7440-62-2	Vanadium	82	2.9	
7440-66-6	Zinc	500	2.9	

**Comments:** Thallium RL raised due to matrix interference.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

**Wells G+H S.West Properties - Woburn, MA**

**Metals in Soil Medium Level by ICP**

Client Sample ID: SS-050811-06  
Date of Collection: 8/11/2005  
Date of Digestion: 8/17/05  
Date of Analysis: 8/23/05  
Volume Digested: N/A

Lab Sample ID: AA52255  
Matrix: Soil/Sediment  
Final Volume: 50 mL  
Digestate Dilution: 1  
pH: NA

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	7700	19	
7440-36-0	Antimony	ND	9.6	
7440-38-2	Arsenic	ND	19	
7440-39-3	Barium	37	2.9	
7440-41-7	Beryllium	ND	0.96	
7440-43-9	Cadmium	ND	2.9	
7440-70-2	Calcium	1500	19	
7440-47-3	Chromium	16	2.9	
7440-48-4	Cobalt	7.0	2.9	
7440-50-8	Copper	24	2.9	
7439-89-6	Iron	11000	9.6	
7439-92-1	Lead	130	9.6	
7439-95-4	Magnesium	3200	19	
7439-96-5	Manganese	180	1.9	
7440-02-0	Nickel	12	5.8	
7782-49-2	Selenium	ND	9.6	
7440-22-4	Silver	ND	2.9	
7440-28-0	Thallium	ND	38	
7440-62-2	Vanadium	21	2.9	
7440-66-6	Zinc	69	2.9	

**Comments:** Thallium RL raised due to matrix interference.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Metals in Soil Medium Level by ICP

Client Sample ID: SS-050811-07  
Date of Collection: 8/11/2005  
Date of Digestion: 8/17/05  
Date of Analysis: 8/23/05  
Volume Digested: N/A

Lab Sample ID: AA52256  
Matrix: Soil/Sediment  
Final Volume: 50 mL  
Digestate Dilution: 1  
pH: NA

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	20000	20	
7440-36-0	Antimony	ND	10	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	190	3.0	
7440-41-7	Beryllium	ND	1.0	
7440-43-9	Cadmium	ND	3.0	
7440-70-2	Calcium	9600	20	
7440-47-3	Chromium	64	3.0	
7440-48-4	Cobalt	16	3.0	
7440-50-8	Copper	160	3.0	
7439-89-6	Iron	30000	10	
7439-92-1	Lead	310	10	
7439-95-4	Magnesium	10000	20	
7439-96-5	Manganese	400	2.0	
7440-02-0	Nickel	38	6.0	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	3.0	
7440-28-0	Thallium	ND	65	
7440-62-2	Vanadium	60	3.0	
7440-66-6	Zinc	470	3.0	

**Comments:** Thallium RL raised due to matrix interference.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Metals in Soil Medium Level by ICP

Client Sample ID: SS-050811-08  
Date of Collection: 8/11/2005  
Date of Digestion: 8/17/05  
Date of Analysis: 8/23/05  
Volume Digested: N/A

Lab Sample ID: AA52257  
Matrix: Soil/Sediment  
Final Volume: 50 mL  
Digestate Dilution: 1  
pH: NA

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	9900	20	
7440-36-0	Antimony	ND	10	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	190	3.0	
7440-41-7	Beryllium	ND	1.0	
7440-43-9	Cadmium	ND	3.0	
7440-70-2	Calcium	4500	20	
7440-47-3	Chromium	73	3.0	
7440-48-4	Cobalt	8.6	3.0	
7440-50-8	Copper	51	3.0	
7439-89-6	Iron	18000	10	
7439-92-1	Lead	510	10	
7439-95-4	Magnesium	4100	20	
7439-96-5	Manganese	240	2.0	
7440-02-0	Nickel	18	6.1	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	3.0	
7440-28-0	Thallium	ND	40	
7440-62-2	Vanadium	33	3.0	
7440-66-6	Zinc	200	3.0	

**Comments:** Thallium RL raised due to matrix interference.



US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

**Wells G+H S.West Properties - Woburn, MA**

**Metals in Soil Medium Level by ICP**

Client Sample ID: SS-050811-09  
Date of Collection: 8/11/2005  
Date of Digestion: 8/17/05  
Date of Analysis: 8/23/05  
Volume Digested: N/A

Lab Sample ID: AA52258  
Matrix: Soil/Sediment  
Final Volume: 50 mL  
Digestate Dilution: 1, 2  
pH: NA

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	7200	19	
7440-36-0	Antimony	ND	9.7	J1
7440-38-2	Arsenic	ND	39	
7440-39-3	Barium	220	5.8	
7440-41-7	Beryllium	ND	0.97	
7440-43-9	Cadmium	7.7	2.9	
7440-70-2	Calcium	3800	19	
7440-47-3	Chromium	1100	2.9	
7440-48-4	Cobalt	10	2.9	
7440-50-8	Copper	150	5.8	
7439-89-6	Iron	58000	19	
7439-92-1	Lead	1000	19	
7439-95-4	Magnesium	2000	19	
7439-96-5	Manganese	330	3.9	J1
7440-02-0	Nickel	40	5.8	
7782-49-2	Selenium	ND	19	
7440-22-4	Silver	ND	5.8	
7440-28-0	Thallium	ND	76	J1
7440-62-2	Vanadium	28	5.8	
7440-66-6	Zinc	1300	5.8	

**Comments:** Thallium RL raised due to matrix interference.

Results for arsenic, barium, copper, iron, lead, manganese, selenium, silver, thallium, vanadium and zinc reported from 1:2 dilution.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Laboratory Reagent Blank

Client Sample ID: N/A  
Date of Collection: N/A  
Date of Digestion: 8/17/05  
Date of Analysis: 8/23/05  
Volume Digested: N/A

Lab Sample ID: N/A  
Matrix: Soil/Sediment  
Final Volume: 50 mL  
Digestate Dilution: 1  
pH: NA

CAS Number	Parameter	Concentration ug/L	RL ug/L	Qualifier
7429-90-5	Aluminum	ND	200	
7440-36-0	Antimony	ND	100	
7440-38-2	Arsenic	ND	200	
7440-39-3	Barium	ND	30	
7440-41-7	Beryllium	ND	10	
7440-43-9	Cadmium	ND	30	
7440-70-2	Calcium	ND	200	
7440-47-3	Chromium	ND	30	
7440-48-4	Cobalt	ND	30	
7440-50-8	Copper	ND	30	
7439-89-6	Iron	ND	100	
7439-92-1	Lead	ND	100	
7439-95-4	Magnesium	ND	200	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	60	
7782-49-2	Selenium	ND	100	
7440-22-4	Silver	ND	30	
7440-28-0	Thallium	ND	200	
7440-62-2	Vanadium	ND	30	
7440-66-6	Zinc	ND	30	

Comments:



United States Environmental Protection Agency  
Office of Environmental Measurement & Evaluation  
11 Technology Drive  
North Chelmsford, MA 01863-2431

Laboratory Report

October 03, 2005

Mr Frank Gardner - HBR  
USEPA New England, Region 1  
One Congress Street  
Boston, MA 02114 - 2023

Project Number: 05080028  
Project: Wells G+H S.West Properties - Woburn, MA  
Analysis: Pesticides and PCBs Medium Level in Soil  
Analyst: Peter Philbrook

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL2.SOP.

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness. The results are reported on a dry weight basis.

Date Samples Received by the Laboratory: 8/11/05

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8335 .

Sincerely,

Nora Conlon, Ph.D.  
Chemistry Laboratory Services Coordinator

**Qualifiers:** RL = Reporting limit  
ND = Not Detected above Reporting limit  
NA = Not Applicable due to high sample dilutions or sample interferences  
J = Estimated value  
E = Estimated value exceeds the calibration range  
L = Estimated value is below the calibration range  
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.  
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.  
C = The identification has been confirmed by GC/MS.  
A = Suspected Aldol condensation product.  
N = Tentatively identified compound.  
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID:	SS-050811-01	Lab Sample ID:	AA52250
Date of Collection:	8/11/2005	Matrix:	Soil
Date of Extraction:	8/16/05	Final Volume:	5 mL
Date of Analysis:	9/15/05	Percent Solids:	28%
Dry Weight Extracted:	1.70 grams	Extract Dilution:	1, 10
Wet Weight Extracted:	6.10 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	270	14	J
72-55-9	4,4'-DDE	180	14	
50-29-3	4,4'-DDT	ND	14	
309-00-2	Aldrin	ND	14	
5103-71-9	Alpha Chlordane	1700	14	
319-84-6	Alpha-BHC	ND	14	
319-85-7	Beta-BHC	ND	14	
319-86-8	Delta-BHC	ND	14	
60-57-1	Dieldrin	ND	14	
959-98-8	Endosulfan I	ND	14	
33212-65-9	Endosulfan II	ND	14	
1031-07-8	Endosulfan Sulfate	ND	14	
72-20-8	Endrin	ND	14	
7421-93-4	Endrin Aldehyde	ND	14	
53494-70-5	Endrin Ketone	ND	14	
5103-74-2	Gamma Chlordane	2300	14	
58-89-9	Gamma-BHC	ND	14	
76-44-8	Heptachlor	ND	14	
1024-57-3	Heptachlor Epoxide	ND	14	
72-43-5	Methoxychlor	ND	14	
12674-11-2	Aroclor-1016	ND	290	
11104-28-2	Aroclor-1221	ND	290	
11141-16-5	Aroclor-1232	ND	290	
53469-21-9	Aroclor-1242	ND	290	
12672-29-6	Aroclor-1248	ND	290	
11097-69-1	Aroclor-1254	19000	290	
11096-82-5	Aroclor-1260	19000	290	
11100-14-4	Aroclor-1262	ND	290	
37324-23-5	Aroclor-1268	ND	290	
57-74-9	Technical Chlordane	18000	290	
8001-35-2	Toxaphene	ND	290	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	90	18 - 130
Decachlorobiphenyl	84	64 - 122

Comments: J = A confirmation value could not be determined on the second analytical column due to interference. The value is estimated.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID:	SS-050811-02	Lab Sample ID:	AA52251
Date of Collection:	8/11/2005	Matrix:	Soil
Date of Extraction:	8/16/05	Final Volume:	5 mL
Date of Analysis:	9/16/05	Percent Solids:	30%
Dry Weight Extracted:	1.99 grams	Extract Dilution:	1,5,10
Wet Weight Extracted:	6.61 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	93	12	P
72-55-9	4,4'-DDE	53	12	
50-29-3	4,4'-DDT	ND	12	
309-00-2	Aldrin	ND	12	
5103-71-9	Alpha Chlordane	540	12	
319-84-6	Alpha-BHC	ND	12	
319-85-7	Beta-BHC	ND	12	
319-86-8	Delta-BHC	ND	12	
60-57-1	Dieldrin	ND	12	
959-98-8	Endosulfan I	ND	12	
33212-65-9	Endosulfan II	ND	12	
1031-07-8	Endosulfan Sulfate	ND	12	
72-20-8	Endrin	ND	12	
7421-93-4	Endrin Aldehyde	ND	12	
53494-70-5	Endrin Ketone	ND	12	
5103-74-2	Gamma Chlordane	660	12	
58-89-9	Gamma-BHC	ND	12	
76-44-8	Heptachlor	ND	12	
1024-57-3	Heptachlor Epoxide	ND	12	
72-43-5	Methoxychlor	ND	12	
12674-11-2	Aroclor-1016	ND	250	
11104-28-2	Aroclor-1221	ND	250	
11141-16-5	Aroclor-1232	ND	250	
53469-21-9	Aroclor-1242	ND	250	
12672-29-6	Aroclor-1248	ND	250	
11097-69-1	Aroclor-1254	3400	250	
11096-82-5	Aroclor-1260	2400	250	
11100-14-4	Aroclor-1262	ND	250	
37324-23-5	Aroclor-1268	ND	250	
57-74-9	Technical Chlordane	5600	250	
8001-35-2	Toxaphene	ND	250	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	90	18 - 130
Decachlorobiphenyl	92	64 - 122

Comments: P = The second analytical column confirmation was > 35% difference due to interference, the lower value was reported.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID: SS-050811-03  
Date of Collection: 8/11/2005  
Date of Extraction: 8/16/05  
Date of Analysis: 9/16/05  
Dry Weight Extracted: 1.59 grams  
Wet Weight Extracted: 6.02 grams  
Volume Extracted: N/A

Lab Sample ID: AA52252  
Matrix: Soil  
Final Volume: 5 mL  
Percent Solids: 26%  
Extract Dilution: 1  
pH: N/A  
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	20	16	
72-55-9	4,4'-DDE	26	16	
50-29-3	4,4'-DDT	ND	16	
309-00-2	Aldrin	ND	16	
5103-71-9	Alpha Chlordane	36	16	
319-84-6	Alpha-BHC	ND	16	
319-85-7	Beta-BHC	ND	16	
319-86-8	Delta-BHC	ND	16	
60-57-1	Dieldrin	ND	16	
959-98-8	Endosulfan I	ND	16	
33212-65-9	Endosulfan II	ND	16	
1031-07-8	Endosulfan Sulfate	ND	16	
72-20-8	Endrin	ND	16	
7421-93-4	Endrin Aldehyde	ND	16	
53494-70-5	Endrin Ketone	ND	16	
5103-74-2	Gamma Chlordane	24	16	P
58-89-9	Gamma-BHC	ND	16	
76-44-8	Heptachlor	ND	16	
1024-57-3	Heptachlor Epoxide	ND	16	
72-43-5	Methoxychlor	ND	16	
12674-11-2	Aroclor-1016	ND	310	
11104-28-2	Aroclor-1221	ND	310	
11141-16-5	Aroclor-1232	ND	310	
53469-21-9	Aroclor-1242	ND	310	
12672-29-6	Aroclor-1248	ND	310	
11097-69-1	Aroclor-1254	ND	310	
11096-82-5	Aroclor-1260	240	310	L
11100-14-4	Aroclor-1262	ND	310	
37324-23-5	Aroclor-1268	ND	310	
57-74-9	Technical Chlordane	370	310	
8001-35-2	Toxaphene	ND	310	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	90	18 - 130
Decachlorobiphenyl	101	64 - 122

Comments: P = The second analytical column confirmation was > 35% difference due to interference, the lower value was reported.

L = Aroclor 1260 concentration is estimated, the value was below the calibration.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID:	SS-050811-04	Lab Sample ID:	AA52253
Date of Collection:	8/11/2005	Matrix:	Soil
Date of Extraction:	8/16/05	Final Volume:	5 mL
Date of Analysis:	9/16/05	Percent Solids:	37%
Dry Weight Extracted:	2.41 grams	Extract Dilution:	1
Wet Weight Extracted:	6.55 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	11	10	
72-55-9	4,4'-DDE	14	10	
50-29-3	4,4'-DDT	ND	10	
309-00-2	Aldrin	ND	10	
5103-71-9	Alpha Chlordane	19	10	
319-84-6	Alpha-BHC	ND	10	
319-85-7	Beta-BHC	ND	10	
319-86-8	Delta-BHC	ND	10	
60-57-1	Dieldrin	ND	10	
959-98-8	Endosulfan I	ND	10	
33212-65-9	Endosulfan II	ND	10	
1031-07-8	Endosulfan Sulfate	ND	10	
72-20-8	Endrin	ND	10	
7421-93-4	Endrin Aldehyde	ND	10	
53494-70-5	Endrin Ketone	ND	10	
5103-74-2	Gamma Chlordane	13	10	P
58-89-9	Gamma-BHC	ND	10	
76-44-8	Heptachlor	ND	10	
1024-57-3	Heptachlor Epoxide	ND	10	
72-43-5	Methoxychlor	ND	10	
12674-11-2	Aroclor-1016	ND	210	
11104-28-2	Aroclor-1221	ND	210	
11141-16-5	Aroclor-1232	ND	210	
53469-21-9	Aroclor-1242	ND	210	
12672-29-6	Aroclor-1248	ND	210	
11097-69-1	Aroclor-1254	ND	210	
11096-82-5	Aroclor-1260	110	210	L
11100-14-4	Aroclor-1262	ND	210	
37324-23-5	Aroclor-1268	ND	210	
57-74-9	Technical Chlordane	270	210	
8001-35-2	Toxaphene	ND	210	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	81	18 - 130
Decachlorobiphenyl	98	64 - 122

Comments: P = The second analytical column confirmation was > 35% difference due to interference, the lower value was reported.

L = Aroclor 1260 concentration is estimated, the value was below the calibration.



US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID: SS-050811-05  
Date of Collection: 8/11/2005  
Date of Extraction: 8/16/05  
Date of Analysis: 9/16/05  
Dry Weight Extracted: 2.75 grams  
Wet Weight Extracted: 6.26 grams  
Volume Extracted: N/A

Lab Sample ID: AA52254  
Matrix: Soil  
Final Volume: 5 mL  
Percent Solids: 44%  
Extract Dilution: 1  
pH: N/A  
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	23	9.0	P
72-55-9	4,4'-DDE	28	9.0	
50-29-3	4,4'-DDT	26	9.0	P
309-00-2	Aldrin	ND	9.0	
5103-71-9	Alpha Chlordane	27	9.0	
319-84-6	Alpha-BHC	ND	9.0	
319-85-7	Beta-BHC	ND	9.0	
319-86-8	Delta-BHC	ND	9.0	
60-57-1	Dieldrin	ND	9.0	
959-98-8	Endosulfan I	ND	9.0	
33212-65-9	Endosulfan II	ND	9.0	
1031-07-8	Endosulfan Sulfate	ND	9.0	
72-20-8	Endrin	ND	9.0	
7421-93-4	Endrin Aldehyde	ND	9.0	
53494-70-5	Endrin Ketone	ND	9.0	
5103-74-2	Gamma Chlordane	34	9.0	J
58-89-9	Gamma-BHC	ND	9.0	
76-44-8	Heptachlor	ND	9.0	
1024-57-3	Heptachlor Epoxide	ND	9.0	
72-43-5	Methoxychlor	ND	9.0	
12674-11-2	Aroclor-1016	ND	180	
11104-28-2	Aroclor-1221	ND	180	
11141-16-5	Aroclor-1232	ND	180	
53469-21-9	Aroclor-1242	ND	180	
12672-29-6	Aroclor-1248	ND	180	
11097-69-1	Aroclor-1254	ND	180	
11096-82-5	Aroclor-1260	120	180	L
11100-14-4	Aroclor-1262	ND	180	
37324-23-5	Aroclor-1268	ND	180	
57-74-9	Technical Chlordane	ND	180	
8001-35-2	Toxaphene	ND	180	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	89	18 - 130
Decachlorobiphenyl	93	64 - 122

Comments: J = Estimated: The value for g-chloradane could not be confirmed on a second analytical column due to interference.

P = The second analytical column confirmation was > 35% difference due to interference, the lower value was reported.

L = Aroclor 1260 concentration is estimated, the value was below the calibration.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID: SS-050811-06  
Date of Collection: 8/11/2005  
Date of Extraction: 8/16/05  
Date of Analysis: 9/16/05  
Dry Weight Extracted: 5.40 grams  
Wet Weight Extracted: 5.46 grams  
Volume Extracted: N/A

Lab Sample ID: AA52255  
Matrix: Soil  
Final Volume: 5 mL  
Percent Solids: 99%  
Extract Dilution: 1  
pH: N/A  
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	4.5	
72-55-9	4,4'-DDE	ND	4.5	
50-29-3	4,4'-DDT	ND	4.5	
309-00-2	Aldrin	ND	4.5	
5103-71-9	Alpha Chlordane	ND	4.5	
319-84-6	Alpha-BHC	ND	4.5	
319-85-7	Beta-BHC	ND	4.5	
319-86-8	Delta-BHC	ND	4.5	
60-57-1	Dieldrin	ND	4.5	
959-98-8	Endosulfan I	ND	4.5	
33212-65-9	Endosulfan II	ND	4.5	
1031-07-8	Endosulfan Sulfate	ND	4.5	
72-20-8	Endrin	ND	4.5	
7421-93-4	Endrin Aldehyde	ND	4.5	
53494-70-5	Endrin Ketone	ND	4.5	
5103-74-2	Gamma Chlordane	ND	4.5	
58-89-9	Gamma-BHC	ND	4.5	
76-44-8	Heptachlor	ND	4.5	
1024-57-3	Heptachlor Epoxide	ND	4.5	
72-43-5	Methoxychlor	ND	4.5	
12674-11-2	Aroclor-1016	ND	90	
11104-28-2	Aroclor-1221	ND	90	
11141-16-5	Aroclor-1232	ND	90	
53469-21-9	Aroclor-1242	ND	90	
12672-29-6	Aroclor-1248	ND	90	
11097-69-1	Aroclor-1254	ND	90	
<b>11096-82-5</b>	<b>Aroclor-1260</b>	<b>320</b>	<b>90</b>	
11100-14-4	Aroclor-1262	ND	90	
37324-23-5	Aroclor-1268	ND	90	
57-74-9	Technical Chlordane	ND	90	
8001-35-2	Toxaphene	ND	90	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	87	18 - 130
Decachlorobiphenyl	93	64 - 122

Comments:

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID: SS-050811-07  
Date of Collection: 8/11/2005  
Date of Extraction: 8/16/05  
Date of Analysis: 9/16/05  
Dry Weight Extracted: 2.70 grams  
Wet Weight Extracted: 6.92 grams  
Volume Extracted: N/A

Lab Sample ID: AA52256  
Matrix: Soil  
Final Volume: 5 mL  
Percent Solids: 39%  
Extract Dilution: 1  
pH: N/A  
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	140	9.5	
72-55-9	4,4'-DDE	100	9.5	
50-29-3	4,4'-DDT	ND	9.5	
309-00-2	Aldrin	ND	9.5	
5103-71-9	Alpha Chlordane	170	9.5	
319-84-6	Alpha-BHC	ND	9.5	
319-85-7	Beta-BHC	ND	9.5	
319-86-8	Delta-BHC	ND	9.5	
60-57-1	Dieldrin	ND	9.5	
959-98-8	Endosulfan I	ND	9.5	
33212-65-9	Endosulfan II	ND	9.5	
1031-07-8	Endosulfan Sulfate	ND	9.5	
72-20-8	Endrin	ND	9.5	
7421-93-4	Endrin Aldehyde	ND	9.5	
53494-70-5	Endrin Ketone	ND	9.5	
5103-74-2	Gamma Chlordane	250	9.5	
58-89-9	Gamma-BHC	ND	9.5	
76-44-8	Heptachlor	ND	9.5	
1024-57-3	Heptachlor Epoxide	ND	9.5	
72-43-5	Methoxychlor	ND	9.5	
12674-11-2	Aroclor-1016	ND	190	
11104-28-2	Aroclor-1221	ND	190	
11141-16-5	Aroclor-1232	ND	190	
53469-21-9	Aroclor-1242	ND	190	
12672-29-6	Aroclor-1248	ND	190	
11097-69-1	Aroclor-1254	850	190	
11096-82-5	Aroclor-1260	370	190	P
11100-14-4	Aroclor-1262	ND	190	
37324-23-5	Aroclor-1268	ND	190	
57-74-9	Technical Chlordane	1800	190	P
8001-35-2	Toxaphene	ND	190	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene  
Decachlorobiphenyl

Recoveries (%)

92  
80

QC Ranges

18 - 130  
64 - 122

Comments: P= The confirmation value was >35% difference due to interference, the lower value was reported.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID: SS-050811-08  
Date of Collection: 8/11/2005  
Date of Extraction: 8/16/05  
Date of Analysis: 9/16/05  
Dry Weight Extracted: 4.31 grams  
Wet Weight Extracted: 6.80 grams  
Volume Extracted: N/A

Lab Sample ID: AA52257  
Matrix: Soil  
Final Volume: 5 mL  
Percent Solids: 63%  
Extract Dilution: 1  
pH: N/A  
GPC Factor: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	12	6.0	P
72-55-9	4,4'-DDE	36	6.0	
50-29-3	4,4'-DDT	59	6.0	
309-00-2	Aldrin	ND	6.0	
5103-71-9	Alpha Chlordane	37	6.0	
319-84-6	Alpha-BHC	ND	6.0	
319-85-7	Beta-BHC	ND	6.0	
319-86-8	Delta-BHC	ND	6.0	
60-57-1	Dieldrin	ND	6.0	
959-98-8	Endosulfan I	ND	6.0	
33212-65-9	Endosulfan II	ND	6.0	
1031-07-8	Endosulfan Sulfate	ND	6.0	
72-20-8	Endrin	ND	6.0	
7421-93-4	Endrin Aldehyde	ND	6.0	
53494-70-5	Endrin Ketone	ND	6.0	
5103-74-2	Gamma Chlordane	29	6.0	P
58-89-9	Gamma-BHC	ND	6.0	
76-44-8	Heptachlor	ND	6.0	
1024-57-3	Heptachlor Epoxide	ND	6.0	
72-43-5	Methoxychlor	ND	6.0	
12674-11-2	Aroclor-1016	ND	120	
11104-28-2	Aroclor-1221	ND	120	
11141-16-5	Aroclor-1232	ND	120	
53469-21-9	Aroclor-1242	ND	120	
12672-29-6	Aroclor-1248	ND	120	
11097-69-1	Aroclor-1254	160	120	
11096-82-5	Aroclor-1260	140	120	
11100-14-4	Aroclor-1262	ND	120	
37324-23-5	Aroclor-1268	ND	120	
57-74-9	Technical Chlordane	390	120	P
8001-35-2	Toxaphene	ND	120	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	96	18 - 130
Decachlorobiphenyl	90	64 - 122

Comments: P= The confirmation value was >35% difference due to interference, the lower value was reported.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Pesticides and PCBs Medium Level in Soil

Client Sample ID:	SS-050811-09	Lab Sample ID:	AA52258
Date of Collection:	8/11/2005	Matrix:	Soil
Date of Extraction:	8/16/05	Final Volume:	5 mL
Date of Analysis:	9/8/05	Percent Solids:	92%
Dry Weight Extracted:	4.98 grams	Extract Dilution:	1,100
Wet Weight Extracted:	5.41 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
309-00-2	Aldrin	ND	5.0	
319-84-6	Alpha-BHC	ND	5.0	
319-85-7	Beta-BHC	ND	5.0	
319-86-8	Delta-BHC	ND	5.0	
60-57-1	Dieldrin	ND	5.0	
959-98-8	Endosulfan I	ND	5.0	
33212-65-9	Endosulfan II	ND	5.0	
1031-07-8	Endosulfan Sulfate	ND	5.0	
72-20-8	Endrin	ND	5.0	
7421-93-4	Endrin Aldehyde	ND	5.0	
53494-70-5	Endrin Ketone	ND	5.0	
58-89-9	Gamma-BHC	ND	5.0	
76-44-8	Heptachlor	ND	5.0	
1024-57-3	Heptachlor Epoxide	ND	5.0	
72-43-5	Methoxychlor	ND	5.0	
72-55-9	4,4'-DDE	280	50	
72-54-8	4,4'-DDD	1200	500	P
50-29-3	4,4'-DDT	280	500	L
5103-71-9	Alpha Chlordane	4900	500	
5103-74-2	Gamma Chlordane	5900	500	
12674-11-2	Aroclor-1016	ND	2,000	
11104-28-2	Aroclor-1221	ND	2,000	
11141-16-5	Aroclor-1232	ND	2,000	
53469-21-9	Aroclor-1242	ND	2,000	
12672-29-6	Aroclor-1248	ND	2,000	
11097-69-1	Aroclor-1254	6500	2,000	
11096-82-5	Aroclor-1260	14000	2,000	
11100-14-4	Aroclor-1262	ND	2,000	
37324-23-5	Aroclor-1268	ND	2,000	
8001-35-2	Toxaphene	ND	2,000	
57-74-9	Technical Chlordane	72000	5,000	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	82	18 - 130
Decachlorobiphenyl	102	64 - 122

Comments: P= The confirmation value was >35% difference due to interference, the lower value was reported.

L = Estimated value, was below the calibration range.

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Wells G+H S.West Properties - Woburn, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/16/05	Final Volume:	5 mL
Date of Analysis:	8/25/05	Percent Solids:	100%
Dry Weight Extracted:	5.19 grams	Extract Dilution:	1
Wet Weight Extracted:	5.19 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
72-54-8	4,4'-DDD	ND	5.0	
72-55-9	4,4'-DDE	ND	5.0	
50-29-3	4,4'-DDT	ND	5.0	
309-00-2	Aldrin	ND	5.0	
5103-71-9	Alpha Chlordane	ND	5.0	
319-84-6	Alpha-BHC	ND	5.0	
319-85-7	Beta-BHC	ND	5.0	
319-86-8	Delta-BHC	ND	5.0	
60-57-1	Dieldrin	ND	5.0	
959-98-8	Endosulfan I	ND	5.0	
33212-65-9	Endosulfan II	ND	5.0	
1031-07-8	Endosulfan Sulfate	ND	5.0	
72-20-8	Endrin	ND	5.0	
7421-93-4	Endrin Aldehyde	ND	5.0	
53494-70-5	Endrin Ketone	ND	5.0	
5103-74-2	Gamma Chlordane	ND	5.0	
58-89-9	Gamma-BHC	ND	5.0	
76-44-8	Heptachlor	ND	5.0	
1024-57-3	Heptachlor Epoxide	ND	5.0	
72-43-5	Methoxychlor	ND	5.0	
12674-11-2	Aroclor-1016	ND	100	
11104-28-2	Aroclor-1221	ND	100	
11141-16-5	Aroclor-1232	ND	100	
53469-21-9	Aroclor-1242	ND	100	
12672-29-6	Aroclor-1248	ND	100	
11097-69-1	Aroclor-1254	ND	100	
11096-82-5	Aroclor-1260	ND	100	
11100-14-4	Aroclor-1262	ND	100	
37324-23-5	Aroclor-1268	ND	100	
57-74-9	Technical Chlordane	ND	100	
8001-35-2	Toxaphene	ND	100	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	98	18 - 130
Decachlorobiphenyl	114	64 - 122

Comments:

FACILITY NAME	INSPECTOR	LOCATION	FRP #	JURISDICTION
Getty Fuels New Haven	Mia Pasquerella	New Haven, CT	FRP01A0177	USCG
MWRA Deer Island	Alex Sherrin	Boston, MA	FRP01A0208	USCG
Harborview Terminals	Les Sims	Bridgeport, CT	FRP01A0062	USCG
Sprague Avery Lane	Janis Tsang	Newington, NH	FRP01A0222	USCG
CT L&P Devon Station	Les Sims	Devon, CT	FRP01A0019	USCG
Inland Fuels	Mia Pasquerella	Tiverton, RI	FRP01A0207	USCG
Webber Tanks	Janis Tsang	Bucksport, ME	FRP01A0035	USCG



PROPOSED DATE								
Tuesday, April 25, 2006	APRIL 25, 2006 with Janis and Les							
Wednesday, May 17 or Thursday, May 18, 2006	MAY 2006 with Mia							
Tuesday May16, 2006	MAY 2006 with MaryEllen and Cosmo							
Wednesday, June 7 or Thursday, June 8, 2006	JUNE 2006 with Mia							
Tuesday June 20, 2006	JUNE 2006 with MaryEllen and Cosmo							
JULY 2006, date to be determined	JULY 2006 with Rich							
JULY 2006, date to be determined	JULY 2006 with MaryEllen and Cosmo							

FACILITY NAME	INSPECTOR	LOCATION	FRP #	JURISDICTION	PROPOSED DATE	
Getty Fuels New Haven	Mia Pasquerella	New Haven, CT	FRP01A0177	USCG	Tuesday, April 25, 2006	APRIL 25, 2006 with Janis and Les
MWRA Deer Island	Alex Sherrin	Boston, MA	FRP01A0208	USCG	Wednesday, May 17 or Thursday, May 18, 2006	MAY 2006 with Mia
Harborview Terminals	Les Sims	Bridgeport, CT	FRP01A0062	USCG	Tuesday May18, 2006	MAY 2006 with MaryEllen and Cosmo
Sprague Avery Lane	Janis Tsang	Newington, NH	FRP01A0222	USCG	Wednesday, June 7 or Thursday, June 8, 2006	JUNE 2006 with Mia
CT L&P Devon Station	Les Sims	Devon, CT	FRP01A0019	USCG	Tuesday June 20, 2006	JUNE 2006 with MaryEllen and Cosmo
Inland Fuels	Mia Pasquerella	Tiverton, RI	FRP01A0207	USCG	JULY 2006, date to be determined	JULY 2006 with Rich
Webber Tanks	Janis Tsang	Bucksport, ME	FRP01A0035	USCG	JULY 2006, date to be determined	JULY 2006 with MaryEllen and Cosmo